


**G-131002**

Seat No.

**Bachelor of Physiotherapy (Sem. I) Examination**
**March / April - 2019**
**BPTOC102 : Human Physiology - I**

Time : 3 Hours]

[Total Marks : 80

- Instructions :** (1) Answer should be brief and to the point.  
 (2) Illustrate answer with suitable diagrams.  
 (3) Figures to the right indicate full marks.

**SECTION - I**

- 1 Long Answer : (Any **One** out of Two) **1)(15=15**  
 (a) Define erythropoiesis. Describe stages and factors affecting it.  
 (b) Describe various events occurring during a cardiac cycle.
- 2 Short Answer (Any **Three** out of Four) **3)(5=15**  
 (a) Homeostasis  
 (b) Cell membrane  
 (c) Functions of Lymphocytes  
 (d) Active transport
- 3 Very Short Answer : (Any **Five** out of Seven) **5x2=10**  
 (a) Why SA node is the pacemaker of the heart?  
 (b) Functions of Platelets  
 (c) Landsteiner's Law  
 (d) Normal values of Blood pressure  
 (e) Osmosis and its applications  
 (f) Secondary active transport  
 (g) Frank Starling's Law.

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[ Contd....

**SECTION - II**

- 4 Long Answer : (Any **One** out of Two) **1x15=15**
- (a) Describe nervous regulation of respiration.
  - (b) Describe functions of Gluco-corticoids.
- 5 Short Answer : (Any **Three** out of Four) **3x5=15**
- (a) Deglutition
  - (b) Functions of Saliva
  - (c) Oxygen hemoglobin dissociation curve
  - (d) ADH
- 6 Very Short Answer : (Any **Five** out of Seven) **5)(2=10**
- (a) Hypoxia & its types
  - (b) Muscles of Inspiration
  - (c) Disorders of Growth hormones
  - (d) Functions of Aldosterone
  - (e) Explain the term choleretics & cholegogue
  - (f) Name secretions of parietal cell of stomach
  - (g) Explain peristalsis.
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